

Independent claim 1 also recites selecting a key region from each of the plurality of sections, and combining the selected key region from each of the plurality of sections to form a synthetic key frame that includes each selected key region within the synthetic key frame. Independent claim 1 further recites each selected key region corresponding to a portion of a frame smaller than a total frame size.

Bruckhaus does not teach or suggest all the features of independent claim 1. More specifically, Bruckhaus does not suggest dividing a video stream into a plurality of sections where each section includes a plurality of frames and selecting a key region from each of the plurality of sections. The Office action cites Bruckhaus' col. 1, lines 55-63 and col. 4, lines 12-25 for these features. However, the representative image described in Bruckhaus does not correspond to the claimed key region (from a section of a video stream).

The Office Action appears to rely on Bruckhaus' col. 4, lines 35-65 and col. 5, lines 31-45 for features relating to selecting a key region from each of the plurality of sections. However, the cited sections merely describe that a unit may be extracted from a frame selected by a frame selector 210. This does not teach or suggest selecting a key region from each of the plurality of sections.

Furthermore, the Office Action appears to assert that Bruckhaus' col. 6, lines 37-48 corresponds to the claimed combining the selected key regions from each of the plurality of sections to form a synthetic key frame that includes each selected key frame within the synthetic key frame. However, the cited section does not relate to combining key regions from each of the

plurality of sections. Furthermore, the representative images displayed on the output device 115 as an array of icons does not correspond to a synthetic key frame as recited in independent claim 1.

For at least the reasons set forth above, Bruckhaus does not teach or suggest all the features of independent claim 1. Accordingly, independent claim 1 defines patentable subject matter.

Still further, independent claim 18 recites dividing a video stream into a plurality of sections where each section includes a plurality of frames, and synthesizing a key region of each section into one image, to generate a synthetic key frame that includes each of the synthesized key regions from each section, wherein each key region corresponds to a portion of a frame smaller than a total frame size. Independent claim 18 also recites assigning the synthetic key frame to a key image locator, a hierarchical summary list for describing lower summary structures, and structural information of the video stream. For at least similar reasons as set forth above, Bruckhaus does not teach or suggest these features. Additionally, the Office Action cites col. 9, lines 9-60 for the features relating to the assigning. However, merely because Bruckhaus may teach a hierarchical summary, this does not suggest assigning the synthetic key frame to a key image locator, a hierarchical summary list for describing lower summary structures, and structural information of the video stream. Accordingly, independent claim 18 defines patentable subject matter.

Independent claim 24 recites dividing a video stream into a plurality of sections, and synthesizing a key region representing content of each section into one image, to generate a synthetic key frame that includes each of the synthesized key regions from each section, wherein each key region represents important information regarding the respective frame. Independent claim 24 also recites providing a user interface to a predetermined display to browse a video related to the generated synthetic key frame. For at least similar reasons as set forth above, Bruckhaus does not teach or suggest these features. Additionally, Bruckhaus does not suggest that each key region represents important information regarding the respective frame. Accordingly, independent claim 24 defines patentable subject matter at least.

Independent claim 28 recites dividing a video stream into a plurality of streams where each section includes a plurality of frames, and synthesizing a key region representing content of each section into one image, to generate a synthetic key frame that includes each of the synthesized key regions from each section. Independent claim 28 also recites that each selected key region corresponding to a portion of a frame smaller than a total frame size. Independent claim 28 further recites providing a user interface to a predetermined display to browse a video related to the generated synthetic key frame, selecting the synthetic key frame according to an input of the user and reproducing a segment represented by the selected synthetic key frame. For at least similar reasons as set forth above, Bruckhaus does not teach or suggest these features. Thus, independent claim 28 defines patentable subject matter at least for this additional reason.

For at least the reasons set forth above, each of independent claims 1, 18, 24 and 28 defines patentable subject matter. Each of the dependent claims depends from one of the independent claims and therefore defines patentable subject matter at least for this reason. In addition, the dependent claims recite features that further and independently distinguish over the applied references. For example, dependent claim 46 recites transmitting the synthetic key frame from a server to a terminal. Additionally, dependent claim 47 recites the terminal comprises a mobile terminal. The Office Action cites Bruckhaus' col. 3, lines 34-67 for these features. However, Bruckhaus does not relate to transmitting a synthetic key frame from a server to a mobile terminal. Thus, dependent claims 46 and 47 define patentable subject matter at least for this additional reason.

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and prompt allowance of claims 1-4, 18-41 and 45-47 are earnestly solicited. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney at the telephone number listed below.

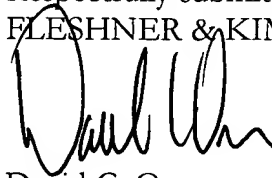
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Reply to Office Action dated December 8, 2005

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,  
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